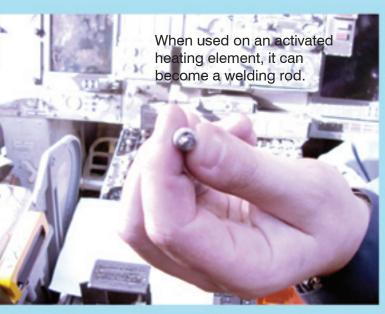
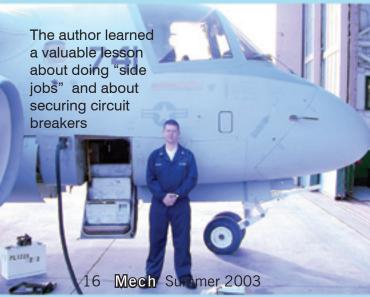




was sitting in the AE shop, working on required reading for an APU turn-up qualification. I was off duty, but the shop was busy. I wasn't surprised when another AE2 asked me to help him with an op check of the pilot's caution-advisory panel. I had plenty of time, so I went with him. Before the job was over, I would wish I had continued to study for my qualification.

I Was a Half-Inch From





The op check required aircraft power, so I did a pre-power check. During my check of the aircraft circuit breakers, I paid attention only to those breakers pertaining to the system I was working on. I did scan the rest of the breakers, but nothing stood out. The op check was for the fire-warning light on the pilot's caution-advisory panel, and that check failed. The other electrician went back to the shop to look at the testing and troubleshooting publications. I stayed behind to replace the part and to secure the power on the aircraft.

While finishing that job, an AME asked me if I could help him by removing the sensing-and-heating-element hardware on the copilot's side windscreen. Knowing this task falls within my rate's scope, I didn't see any harm and agreed to help him. I got into the copilot's seat and began my new "side job." Preparing for this task, I pulled a No. 2 Phillips screwdriver from pouch 220-1-3 and started to remove the inboard screw. As soon as the screwdriver touched the fastener on the heating element, I was blinded by a flash of light as 115 VAC, 3

phase, 400 HZ, and 35 amps arced from the heating element. I had thought this system was deenergized, but the charred screwdriver in my hand told me different.

I was surprised to say the least. Aircraft power had shut down because of a system overload, and I noticed the scent of burnt metal in the air, reminding me of my high-school welding class. I examined the tool and found that about one-third inch of the screwdriver's tip had melted off.

I realized two things: I just had turned one

Death

of the Navy's screwdrivers into a welding rod and had been only a half-inch away from death. If 115 VAC, 35 amps can turn a steel screwdriver into slag, that amount of power almost certainly is enough juice to turn an AE2 into a corpse.

I took a few seconds to calm my nerves and then checked the aircraft for damage. I found the piece of missing screwdriver had melted onto the head of the screw. With no further damage, I secured aircraft power and went to tell my LPO what had happened.

I learned a few valuable lessons from this experience. I was working on an aircraft without a complete and thorough pre-power check. This was and is unacceptable, and I should have known better. I was working on one discrepancy and allowed myself to get sidetracked on another job. In the process, I did not stop to think through the new task. A can-do attitude and a lax work ethic almost killed me. Had I slowed down, thought through the job, and followed procedures, I could have saved myself a lot of time and trouble.

Petty Officer Furlow works in the AE shop at VS-41.

Class B Mishaps 02/07/2003 to 05/18/2003

Aircraft Command Date
UH-1N HMLA-169 02/10/2003
Aircraft was overfueled while pressure refueling.

F-14B VF-32 02/21/2003 KC135 02/21/2003

The Tomcat's starboard engine was FODed during in-flight refueling.

C-2A VRC-30 03/02/2003 FA-18C VMFA-314 03/02/2003

Two aircraft parked on ship's elevator were damaged when elevator was moved.

E-2C+ VAW-113 03/19/2003 An intake cover was ingested during a high-power turn.

T-2C VT-86 03/20/2003 A Buckeye's canopy came off during advanced tactical-maneuver training.

UH-1N HMLA-269 03/26/2003 Helo made a hard landing after single-engine failure.

F-14D VF-213 03/26/2003

The starboard engine FODed during in-flight tanking.

CH-53E HMM-161 03/28/2003 Helo's nose gear collapsed while taxiing to tactical FARP.

FA-18C VFA-25 03/28/2003

During schedule maintenance, maintainers found an improperly secured panel–several fasteners were missing.

FA-18C VFA-94 04/16/2003 Engine anti-ice duct disconnected, causing heat damage and an engine FOD.

P-3C VP-9 04/23/2003 Aircraft struck light pole with right wing while taxiing.

T-34C NAVFORAIRTESTRON 04/29/2003 Mentor executed a gear-up landing at NOLF.

F-14D VF-2 05/08/2003 Port engine FODed on maintenance turn.

T-38A NAVY TEST PILOT SCHOOL 05/09/2003 Two aircraft damaged from lightning and hail.